BRUHAT BANGALORE MAHANAGAR PALIKE

Byatarayanapura Division

NAME OF WORK : Improvements to Roads And Drains in various Cross Roads of Devinagara,Lottegolahalli and surrounding area in ward no.12-Kodigehalli

Name of Contractor :- Abbu Sambasiva Reddy

Estimated cost: 75Lakhs

Amount put to Tender as per Sanction : 54,17,060.18

Agreement No.

Job Code / Indent No :- 012-23-000007

Head of Account :

WORKSLIP

Item no	Description of work	Unit	As per Tender			Execution Qty	Present						Total up to date		Savings	Excess
							Quantity upto 125%			Quantity Above 125%						
			BOQ Qty	Rate	Amount		Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount		
4	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates)	Cum	15.18	7220.00	109599.60	33.22	18.98	7220	137035.6	14.24	5868.63	83569.291	33.22	220604.89		111005.29
5	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200	Tonne	0.91	105000.00	95634.00	2.69	1.14	105000	119700.0	1.51	78592.34	118674.43	2.69	238374.43		142740.43
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc and as per the directions of the Engineer-in-charge of the work	Sqm	52.80	1800.00	95040.00	93.56	66	1800	118800	14.96	2072	30997.12	93.56	149797.12		54757.12

11	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work	Cum	346.75	70.00	24272.50	399.38	399.38	70	27956.6	0	0	0	399.38	27956.60		3684.10
12	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406	Cum	208.05	1700.00	353685.00	327.25	260.06	1700	442102	50.14	2245.76	112602.41	327.25	554704.4064		201019.41
13	Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502	Sqm	1387.00	48.00	66576.00	1619.23	1619.23	48	77723.04	0	0	0	1619.23	77723.04		11147.04
14	Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503	Sqm	1387.00	13.00	18031.00	4729.37	1733.75	13	22538.75	2995.62	11.26	33730.681	4729.37	56269.43		38238.43

15	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects	Cum	69.35	8500.00	589475.00	76.7	76.7	8500	651950	0	0	0	76.7	651950.0		62475.00
16	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects	Cum	204.04	12000.00	2448480.00	217.13	217.13	12000	2605560	0	0	0	217.13	2605560.00		157080.00
17	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803	Sqm	78.30	525.00	41107.50	115.88	97.88	525	51387	18.00	448.4	8071.2	115.88	59458.2		18350.70
	Total															**800497.52**

Workslip Amount 800497.5222
Amount put to tender 5417060.18 14.77734224 %

Contractor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ

BRUHAT BANGALORE MAHANAGAR PALIKE

BYATARAYANAPURA Division

NAME OF WORK : Improvements to Roads And Drains in various Cross Roads of Devinagara,Lottegolahalli and surrounding area in ward no.12-Kodigehalli

Name of Contractor :- AGENCY:- Sri Abbu Sambasiva Reddy

Estimated cost: 75.00 Lakhs

Amount put to Tender as per Sanction :5417060.18

Agreement No:

Head of Account :

RATE ANALYSIS -Work Slip- WORKS (PWD CSR 2021-22)

Item No	Item Code	Page No	Dscription.	Unit	Basic Rate	Lift charges	Total	AW @ 10%	Total Rate	Add T.P (-) 14.72%	Final Rate.
4	2.4.2 Vol-I	17	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications.Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates)	Cu-m	6256	0	6256	625.6	6881.6	1012.97152	5868.63
5	13.1 Vol-III	99	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200	Cu-m	83780	0	83780	8378	92158	13565.6576	78592.34

11	Data Rate		Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc and as per the directions of the Engineer-in-charge of the work	Cu-m	2072		2072		2072	0	2072.00
12	4.27(A) Vol-III	24	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406	Sqm	2394		2394	239.4	2633.4	387.63648	2245.76
14	5.4 II Vol-III	29	Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No.	Sqm	12		12	1.2	13.2	1.94304	11.26
17	8.15 Vol-III	57	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803	Sqm	478		478	47.8	525.8	77.39776	448.40

Assistant Engineer.

Assistant Executive Engineer
Byatarayanapura Division
B.B.M.P
Bangalore.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer,
Byatarayanapura Division
B.B.M.P
Bangalore.

COMPARATIVE STATEMENT

BRUHAT BANGALORE MAHANAGAR PALIKE

Byatarayanapura Division

NAME OF WORK : Improvements to Roads And Drains in various Cross Roads of Devinagara,Lottegolahalli and surrounding area in ward no.12-Kodigehalli.

Estimated cost: 75Lakhs
Amount put to Tender as per Sanction : 54,17,060.18
Agreement No.
Job Code / Indent No :- 012-23-000007
Head of Account :

Sl. No.	Description of work	Unit	Detailed As per Sanctioned Estimate			Detailed As per Approved Tender Rates			Total Executed Qty	Total Amount 14+17	Qty up to 125%			Qty above 125%			Excess Amount 11-09	Savings Amount 9 - 11	Remarks
			Qty	Rate	Amount	Qty	Rate	Amount			Qty	Rate	Amount	Qty	Rate	Amount			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	20	21
1	Removing and refixing stone slabs of drains and pointing and as per the directions of the Engineer-in-charge of the work	sqm	1,503.36	235.00	353289.60	1,503.36	185.00	278121.60	388.53	71878.05	388.53	185.00	71878.05	0.00	0.00	0.00	0.00	206243.55	
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work	Cum	321.36	204.60	65750.26	321.00	204.00	65484.00	278.15	56742.60	278.15	204.00	56742.60	0.00	0.00	0.00	0.00	8741.40	
3	Providing B S Slabs of selected quality roughly dressed having a size of 10cms thick and fixed in cement mortar(1:6) including fixing curing etc complete as directed by the engineer in charge of the work (Excluding GST and Area Leading Charges)	sqm	375.84	920.70	346035.89	375.84	500.00	187920.00	0.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	187920.00	
4	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates)	Cum	15.18	7,225.68	109685.82	15.18	7220.00	109599.60	33.22	220604.89	18.98	7220.00	137035.60	14.24	5868.63	83569.29	111005.29	0.00	

5	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications MORTH Specification NO.1600&2200	Cum	0.91	113,661.90	103523.26	0.91	105000.00	95634.00	2.65	238374.43	1.14	105000.00	119700.00	1.51	78592.34	118674.43	142740.43	0.00	
6	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc and as per the directions of the Engineer-in-charge of the work	sqm	52.80	2,072.00	109401.60	52.80	1800.00	95040.00	80.96	149797.12	66.00	1800.00	118800.00	14.96	2072.00	30997.12	54757.12	0.00	
7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness,well compacted using plate vibrators, including all lead & lifts, cost ofall materials of quality, labour, Usage charges of machineries, curing,and all the other appurtenances required to complete the work as pertechnical specifications (The cost of steel reinforcement & formwork shall be paid separately)	Cum	63.56	6,518.60	414322.22	63.56	5000.00	317800.00	27.50	137500.00	27.50	5000.00	137500.00	0.00	0.00	0.00	0.00	180300.00	
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete ,complete. and as per the directions of the Engineer-in-charge of the work	sqm	430.40	507.00	218212.80	430.40	400.00	172160.00	420.91	168364.00	420.91	400.00	168364.00	0.00	0.00	0.00	0.00	3796.00	
9	Removing and Resetting of Kerbs stones	Mtr	430.40	118.00	50787.20	430.40	118.00	50787.20	0.00	0.00	0.00	118.00	0.00	0.00	0.00	0.00	0.00	50787.20	
10	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces	sqm	188.30	93.50	17606.05	188.30	90.00	16947.00	103.17	9285.30	103.17	90.00	9285.30	0.00	0.00	0.00	0.00	7661.70	

11	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work		346.75	71.50	24792.63	346.75	70.00	24272.50	399.38	27956.60	399.38	70.00	27956.60	0.00	0.00	0.00	3684.10	0.00	
12	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH		208.05	2,633.40	547878.87	208.05	1700.00	353685.00	310.20	554704.41	260.06	1700.00	442102.00	50.14	2245.76	112602.41	201019.41	0.00	
13	Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502		1,387.00	48.40	67130.80	1,387.00	48.00	66576.00	1619.23	77723.04	1619.23	48.00	77723.04	0.00	0.00	0.00	11147.04	0.00	
14	Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503		1,387.00	13.20	18308.40	1,387.00	13.00	18031.00	4729.37	56269.43	1733.75	13.00	22538.75	2995.62	11.26	33730.68	38238.43	0.00	
15	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG 30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the		69.35	10,877.90	754382.37	69.35	8500.00	589475.00	76.70	651950.00	76.70	8500.00	651950.00	0.00	0.00	0.00	62475.00	0.00	
16	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG 30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level		204.04	12,684.10	2588063.76	204.04	12000.00	2448480.00	217.13	2605560.00	217.13	12000.00	2605560.00	0.00	0.00	0.00	157080.00	0.00	

17	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35 2015 The finished surface to be level, uniform and free from streaks and holes. MORTH Specification No. 803	sqm	78.30	525.80	41170.14	78.30	525.00	41107.50	115.88	59458.20	97.88	525.00	51387.00	18.00	448.40	8071.20	18350.70	0.00	
18	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness,well compacted using plate vibrators, including all lead & lifts, cost ofall materials of quality, labour, Usage charges of machineries, curing,and all the other appurtenances required to complete the work as pertechnical specifications. (The cost of steel	Cum	3.88	6,327.20	24549.54	3.88	6200.00	24056.00	0.00	0.00	0.00	6200.00	0.00	0.00	98.47	0.00	0.00	24056.00	
19	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes,	Cum	7.64	7,225.68	55204.20	7.64	7200.00	55008.00	0.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	0.00	55008.00	
20	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications MORTH Specification NO.1600&2200	Tonne	0.69	113,661.90	78426.71	0.69	105000.00	72450.00	0.00	0.00	0.00	105000.00	0.00	0.00	0.00	0.00	0.00	72450.00	
21	Providing and Fixing pre cast Covering Slab 230mm thick made out of CC 1:2:4 and jelly 25mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete As per Engineer incharge	sqm	27.60	5,037.00	139021.20	27.60	4000.00	110400.00	22.10	88400.00	22.10	4000.00	88400.00	0.00	0.00	0.00	0.00	22000.00	

22	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015 The finished surface to be level, uniform and free from streaks and holes MORTH Specification No. 803	sqm	156.60	525.00	82215.00	156.60	525.00	82215.00	0.00	0.00	0.00	525.00	0.00	0.00	0.00	0.00	0.00	82215.00	
23	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km		892.42	159.90	142697.96	892.42	159.00	141894.78	785.84	124948.56	785.84	159.00	124948.56	0.00	0.00	0.00	0.00	16946.22	
																	800,497.52	918,125.07	117,627.55
							5,417,068.18		5,299,516.63										
								18% GST	953,912.99										
								Grand Total	6,253,429.63										

Workslip and	800,497.52	14.78
Amount put to	5,417,068.18	

Assistant Engineer
Byatarayanapura Division
B.B.M.P

Assistant Executive Engineer
Byatarayanapura Division
BBMP

Executive Engineer
Byatarayanapura Division
B.B.M.P

Assistant Executive Engineer
Kodigchalli Sub Division
BBMP, Bangalore

ಮುಖ್ಯ ಅಧಿಯಂತರರು
ಯಲಹಂಕ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ